Figure 1

FIG. 2A

5 '	CAG	AGA	9 GGC	ጥርጥ	ልጥጥ	18 TCA		CAG			AGA			CTG	45 GAG		GAC	54 TGG
_																		
			63			72						90			99			108
																	TGG	
			117												153			162
															AAT		TCC	
													N				s	
			171			180			189			198			207			216
	GCT	ACA			ATC			GGC									TTC	
	A	T	Y	F	I	ь	1	G	ь	Þ	G	ь	ĸ	E	A	Q	F	W
			225			234									261			270
	TTG	GCC	TTC	CCA								GCT		CTA	GGT	AAC	TTG	ACA
	L	A	F	P										L	G	N	L	
			279			288			297			306			315			324
	ATC	ATC		ATT	GTG			GAG						CCC			ATA	
	I	I	Y	I	V	R	T	B	н	S	L	н	E	P	М	Y	Ι	F
			333			342						360			369			378
	CTT	TGC	ATG	CTT	TCA	GGC	ATT	GAC	ATC	CTC	ATC	TCC	ACC	TCA	TCC	ATG	CCC	AAA
	L	c	M	L	s	G	I	D	I	L	I	s	T	s	s	м	P	ĸ
	3.00	ama	387	3.07.07	mma	396			405			414			423		TGT	432
	ATG	CIG									ACC				GAI			
	M	L	A	I	F	W	F	N	s	T	T	I	Q	F	D	A	C	L
			441			450			459			468			477			486
	CTA	CAG	ATT	TTT										TCC	ACA	GTG	CTG	CTG
												м				. v	т.	L
		¥	-	•		-		5	_		J	**	-		•	. •	_	_
			495			504			513			522	~~		531	a		540
	GCC	ATG	GCT	TTT	GAC	CGC	TAT	GTG	GCC	ATC		CAC		CTG	CGC	CAT	GCC	ACA
	A	M	A	F	D	R	Y	v	A	I	C	н	P	L	R	H	A	T
			549			558			567			576			585			594
	GTA	CTT		TTG	CCT												CGG	
	V	L	т	L	P	R	V	T	K	I	G	V	A	A	v	v	R	G
			603			612			621			630			639		1	648
	GCT	GCA		ATG	GCA	CCC	CTT	CCT	GTC	TTC	ATC	AAG	CAG	CTG	CCC	TTC	TGC	CGC
	A			м	A	P	L	P	v	F	I	ĸ	Q	L	P	F	C	R

FIG. 2B

TCC	AAT	657	СТТ	TCC	666 CAT		TAC		, CTA	CAC	684 CAA		GTC	693 ATG	AAG	CTG	702 GCC
S	N	I	L	S	H	S	Y	С	L	H	Q	D	v	M	K	L	A
		711			720			729			738			747			756
TGT	GAT	GAT	ATC	CGG	GTC	AAT	GTC	GTC	TAT	GGC	CTT	ATC	GTC	ATC	ATC	TCC	GCC
C	D	D	I	R	٧	N	v	v	Y	G	L	┺.	v	I	I	s	A
		765			774			783			792			801			810
ATT	GGC	CTG	GAC	TCA	CTT	CTC	ATC	TCC	TTC	TCA	TAT	CTG	CTT	ATT	CTT	AAG	ACT
	 G	L	D	s		T.		s	 F	s		L	 L	ī	L	к	 T
_	G	ь	ט	3			-	٦	F	3	-	ъ	п	_	ъ	Λ.	1
		819			828			837			846			855			864
GTG	TTG	GGC	TTG	ACA	CGT	GAA	GCC	CAG	GCC	AAG	GCA	TTT	GGC	ACT	TGC	GTC	TCT
v	L	G	L	T	R	Е	 A	Q	 A	ĸ	A	F	G	т	C	v	s
•	_	·		-		_		*		••	••	-	J	•	_	•	
		873			882			891			900			909			918
CAT	GTG	TGT	GCT	GTG	TTC	ATA	TTC	TAT	GTA	CCT	TTC	ATT	GGA	TTG	TCC	ATG	GTG
н	v	c	 A	v	·F	I	F	Y	v	P	F	ī	G	L	s	M	v
		927			936		a. a	945			954			963			972
CAT	CGC	TTT	AGC	AAG		CGT	GAC	TCT		CTG		GTC	ATC	TTG	GCC	AAT	ATC
н	R	F	s	K	R	R	D	s		L	P	v	I	L	A	N	I
										_			_				
ጥልጥ	CTG	981 CTG	GTT	CCT	990 CCT	GTG	רידרי	999	CCA		1008 GTC	ጥልጥ		.017	AAC		L026
TAT	CTG		GTT	CCT		GTG	CTC		CCA	ATT		TAT			AAG		
TAT Y	CTG L		GTT V	CCT 	CCT	GTG V						TAT			AAG K		
	r. 	CTG L		P	CCT		L	AAC N		ATT I	GTC V		GGA G	GTG V		ACA T	AAG K
Y	r.	CTG L	v	p	CCT P	v	ъ	N 053	p	ATT I	GTC V L062	Y	GGA G	GTG V .071		ACA T	AAG K
Y GAG	L ATT	L L LO35 CGA	V CAG	P CGC	P LO44 ATC	v CTT	L CGA	N 053 CTT	P TTC	ATT I CAT	GTC V V L062 GTG	gcc	GGA G G 1 ACA	GTG V .071 CAC	K GCT	ACA T T	AAG K 1080 GAG
Y	r.	CTG L	v	p	P LO44 ATC	v	L CGA	N N	P TTC	ATT I CAT	GTC V L062	Y	GGA G	GTG V .071		ACA T	AAG K
Y GAG	L ATT	L L LO35 CGA	V CAG	P CGC R	P LO44 ATC	V CTT	L CGA	N 053 CTT	P TTC	ATT I CAT H	GTC V L062 GTG V	gcc	GGA G ACA T	GTG V .071 CAC	K GCT	ACA T TCA	AAG K 1080 GAG
GAG	ATT	L L L L CGA R L 089	V CAG	P CGC R	CCT P 1044 ATC I	CTT	L J CGA	N LO53 CTT L	TTC	ATT I CAT H	GTC V L062 GTG V	GCC	GGA G G ACA T	GTG V .071 CAC H	K GCT 	ACA T TCA	AAG K 1080 GAG E
GAG	ATT I TAG	CTG L L035 CGA R L089 GTG	V CAG	P CGC R	P l044 ATC I l098 ATC	V CTT	L J CGA	N LO53 CTT L L	P TTC F	ATT I CAT H CAT	GTC V L062 GTG V	GCC A GAG	GGA G ACA T	OTG V .071 CAC H .125	K GCT 	TCA S	AAG K 1080 GAG E
GAG	ATT I TAG	CTG L L035 CGA R L089 GTG	V CAG	P CGC R	P l044 ATC I l098 ATC	V CTT	L CGA R	N LO53 CTT L L	P TTC F	ATT I CAT H CAT	V LO62 GTG V L116 TCA	GCC A GAG	GGA G ACA T	OTG V .071 CAC H .125	GCT A	TCA S	AAG K 1080 GAG E
GAG	ATT I TAG	CTG L L035 CGA R L089 GTG	V CAG Q TCA	CGC R	CCT P 1044 ATC I 1098 ATC	V CTT L	CGA R	N 1053 CTT L 107 CTT	TTC	ATT I CAT H CAT	GTC V L062 GTG V L116 TCA 	GCC A GAG	GGA G G ACA T TCC	OTI CAC H .125 TCT 	GCT	ACA T TCA S	AAG
GAG E CCC P	ATT I TAG	CTG L L035 CGA R L089 GTG	V CAG Q TCA	CGC R GTG	CCT P 1044 ATC I 1098 ATC	V CTT L AAA	CGA R	N LO53 CTT L LO7 CTT	TTC	CAT CAT CAT CAT	GTC V L062 GTG V L116 TCA 	GCC A GAG 	GGA G ACA T TCC	OTI CAC H .125 TCT 	GCT A GAT	ACA T TCA S TCA TCA	AAG K
GAG E CCC P	ATT I TAG	CTG L L035 CGA R L089 GTG	CAG Q TCA	CGC R	P L044 ATC I L098 ATC	V CTT	CGA-R CTT	N 1053 CTT L 107 CTT	TTC F TTC	ATT I CAT H CAT CAT	GTC V 1062 GTG V 1116 TCA	GCC A GAG	GGA G ACA T TCC T AAT	OTG V .071 CAC H .125 TCT	GCT A GAT	ACA T TCA S TCA TCA TACA TACA TACA TACA	AAG K
GAG E CCC P	ATT TAG AAT	CTG L 1035 CGA R 1089 GTG 1143 GTT 1197	V CAG	CGC R	CCT P 1044 ATC I 1098 ATC L206	V CTT L AAA	L CGA CTT CTT	AAC N 1053 CTT L 107 CTT 161 AGT 215	TTC F TTC	CAT CAT CAT CAT	GTC V 116 TCA 170 AAA 224	GCC A GAG	GGA G ACA T TCC T AAT	OTG V .071 CAC H .125 TCT 179 TTC 233	GCT A GAT	ACA T TCA S TCA TCA TA	AAG K
GAG E CCC P TTT AAA	ATT TAG AAT TAG TAG TAC	CTG L 1035 CGA R 1089 GTG 1143 GTT 1197 AAC	V CAG	CGC R GTG	CCT P 1044 ATC I 1098 ATC 2152 TTG 206 CCT	V CTT L AAA GAA	CGA CTT CTT CAAT	N 1053 CTT L 107 CTT	TTC F TTC	CAT CAT CAT CAT CAG	GTC V 116 TCA 170 AAA 224 GTT	GCC A GAG AAA GGG	GGA G ACA T TCC AAT GAA	OTG V	GCT A GAT CTT	ACA T TCA S TCA TCA TTA	AAG K
GAG E CCC P TTT	TAG	CTG L 1035 CGA R 1089 GTG 1143 GTT 1197 AAC 2251	V CAG	CGC R GTG	CCT P 1044 ATC I 1098 ATC 206 CCT 260	V CTT L AAA GAA TCA	CGA-R CTT GAC	AAC N 1053 CTT L 107 CTT 161 AGT 215 ATG 269	TTC F TTC	CAT CAT CAT CAT CAT CAG	GTC V 116 TCA 170 AAA 224 GTT 278	GCC A GAG AAA GGG	GGA G ACA T TCC AAT GAA	GTG V 071 CAC H 125 TCT 233 TCT 287	GCT A GAT CTT CCA	ACA T TCA S TCA TCA TTA TTA	AAG K
GAG E CCC P TTT AAA	ATT TAG AAT TAC TAC	CTG L 1035 CGA R 1089 GTG 1143 GTT 1197 AAC 251 TAT	CAG O TCA TCA TCA TCA TTT	CGC R GTG	CCT P 1044 ATC I 1098 ATC 206 CCT 260 CTT	V CTT L AAA GAA TCA	CGA CTT GAC	AAC N 1053 CTT L 107 CTT 161 AGT 215 ATG 269 CTT	P TTC F TTC ATT AAA GCT	CAT CAT CAT CAT CAG CAG CAG	GTC V 1062 GTG V 116 TCA 170 AAA 224 GTT 278 TAT	GCC A GAG AAA GGG	GGA G ACA T TCC AAT GAA TAT	GTG V 071 CAC H 125 TCT 233 TCT 287 TAA	GCT A GAT CTT CCA	ACA T TCA S AAT TTT CCT	AAG K
GAG E CCC P TTT AAA	ATT TAG AAT TAC TAC	CTG L L 1035 CGA R 143 GTG 1143 GTT 1197 AAC 1251 TAT 1251	CAG Q TCA AAC TCA TCA TTT	P CGC R STG GTG STG GTG CTT CTT	CCT P 1044 ATC I 152 TTG 206 CCT 260 CTT	V CTT L AAA GAA TCA	CGA CTT GAC	AAC N 053 CTT L 107 CTT 161 AGT 215 ATG 269 CTT	TTC F TTC ATT AAA GCT	CAT CAT CAT CAT CAT CAG	GTC V 1062 GTG V 1116 TCA 170 AAA 224 GTT 278 TAT	GCC A GAG AAA GGG AAT	GGA G ACA T TCC AAT GAA TAT	GTG V	GCT A GAT CTT CCA TAC	ACA T TCA S TCA TCA TTA TCA TTA TCA TTTT TTTT	AAG K
GAG CCC P TTT AAA CAA TAG	ATT TAG AAT TAC TAC TAT	CTG L 1035 CGA R 1089 GTG 1143 GTT 1251 TAT 305 GTG	CAG Q TCA AAC TCA TTT TTT	P CGC R STG	CCT P 1044 ATC I 152 TTG 260 CCT 260 CTT 314 GGG	V CTT L AAA GAA TCA TGT	CGA CTT GAC	AAC N 053 CTT L 107 CTT 161 AGT 215 ATG 269 CTT 323 CTT	TTC F TTC ATT AAA GCT	CAT CAT CAT CAT CAG CAG CAG	GTC V 1116 TCA 170 AAA 224 GTT 278 TAT 332 TTA	GCC A GAG AAA GGGG AAT CCA	GGA G ACA T TCC AAT GAA TAT TAT TGC	GTG V	GCT A GAT CTT CCA TAC CCA	ACA T TCA S TCA TCA TCA TCA TCA TCA TCA AAT TTT CCT	AAG K 1080 GAG E 134 GAT 188 AAA 242 TTT 296 GAC 350 CTA

FIG. 2C

					loca	469 D	
							The state of the s
'IG.	2C						
:	1359	1368	1377	1386	1395	1404	Marine Comment
	TGC TTC	TAC TGA TGC	TTT ACA GCA	TTC TGA GAT	AAG AAT GGT	ACA TCT AGA	An Cot /
	1413	1422	1431	. 1440	1449	1458	
					ATA AAC ACA		
					1503		
					CTT CAG AAC		
CAT					1557 TTC TAC AGA		
ATT					1611 TGG AAG TAA		
					1665		
AAG					ACT GTT CTG		
			1701		1719		
	GCA TAT	GGA CCC TGT	TTT TCC TAT	TTA ATT TTC	TTA TCA ACC	CTT TAA TTA	
	1737				1773		
					GGA AAA TTG		
	1791	1800	1809	1818	1827	1836	
					AAA ATT AAA		
ana			1863		1881		
					GTT AGA GAG		
GTA	1899 GTG GGT				1935 TAG AGG AGG		
TCT					1989 CTG GCA ACA		
			2025		2042		
	TTA ATC	CCA CTA GCT	ATT GCT TAT	TGT CCT GGT	CCA ATT GCC	AAT TAC CTG	
					2097		
	CTT GGA	AGA AGT GAT	TTC TAG GTT	CAC CAT TAT	GGA AGA TTC	TTA TTC AGA	
	2115	2124	2133	2142	2151	2160	
					TAA AAG TTC		
	2169	2178	2187	2196	2205	2214	
					TGA TGG GAA		
GCC					2259 GAC TCG TAG		
GAG					2313 TGT GCA GTA		
GAC					2367 GGG AAT CAG		

FIG. 2D

	238	=		229	4		240	2	,	241	,		242			242	n
CITIT	CTG																
CII	CIG	AGG	GGC	IMI	IAC	CAA	GGG	IIA	AIA	GGI	110	AIC	110	AAC	AGG	MIM	IGA
		2430			2448			2457			2466			2475		,	2494
CAA	CAG																
CAA		191		CCA		nnc										I CA	IAI
		2493														:	2528
ATG	TGG															_	
	:	2547		:	2556			2565			2574		:	2583			2592
TAT	AAC																
	2	2601		:	2610			2619		:	2628	•	:	2637		:	2646
TTA	ATA	CTT	GTA	TTT	GCT	GCT	GGA	CTG	TAA	GCC	CAT	GAG	GGC	ACT	GTT	TAT	TAT
	2	2655		2	2664		:	2673		:	2682		2	2691		:	2700
TGA	ATG	TCA	TCT	CTG	TTC	ATC	ATT	GAC	TGC	TÇT	TTG	CTC	ATC	ATT	GAA	TCC	CCC
	_	2709												_		_	2754
AGC	AAA	GTG													ATT	TTT	CAT
	_			_			_			-			_			_	2808
CAA	ACC			_			_		CAT	AGC	CAG		_			_	
CAA	ACC	TGA	TTC	CTT	CTG	TCC	TGA	ACA	CAT	AGC	CAG	GCA	ATT	TTC	CAG	CCT	TCT
	ACC	TGA 2817	TTC	CTT	CTG 2826	TCC	TGA	ACA 2835	CAT	AGC	CAG 2844	GCA	ATT	TTC 2853	CAG	CCT	TCT 2862
	ACC	TGA 2817	TTC	CTT	CTG 2826	TCC 	TGA	ACA 2835 GGC	CAT	AGC	CAG 2844 TTC	GCA CAA	ATT	TTC 2853 GAG	CAG TGG	CCT	TCT 2862
	ACC	TGA 2817 TGG	TTC	CTT	CTG 2826 TTA	TCC	TGA	ACA 2835 GGC	CAT	AGC	CAG 2844 TTC	GCA CAA	ATT	TTC 2853 GAG	CAG TGG	AAG	TCT 2862 TGA
TTG	ACC	TGA 2817 TGG 2871	TTC	CTT	CTG 2826 TTA 2880	TCC	TGA	ACA 2835 GGC 2889	CAT CAT	AGC	CAG 2844 TTC 2898	GCA CAA	ATT TGT	TTC 2853 GAG 2907	CAG TGG	AAG	TCT 2862 TGA 2916
TTG	ACC	TGA 2817 TGG 2871	TTC	CTT	CTG 2826 TTA 2880	TCC	TGA	ACA 2835 GGC 2889	CAT CAT	AGC	CAG 2844 TTC 2898	GCA CAA	ATT TGT	TTC 2853 GAG 2907	CAG TGG	AAG	TCT 2862 TGA 2916
TTG	ACC AGT GTG	TGA 2817 TGG 2871 CAA	TTC GTA TTT	TTA	CTG 2826 TTA 2880 TAC	TCC AAT CTG	TCT	ACA 2835 GGC 2889 CAT	CAT CAT AAA	TAC	CAG 2844 TTC 2898 CTC	GCA CAA CCA	TGT	TTC 2853 GAG 2907 GCA	CAG TGG GCC	AAG	TCT 2862 TGA 2916 CAT
TTG	ACC AGT GTG	TGA 2817 TGG 2871 CAA 	TTC GTA TTT	TTA	CTG 2826 TTA 2880 TAC 2934	TCC AAT CTG	TGA	ACA 2835 GGC 2889 CAT 2943	CAT CAT AAA	AGC TAC	CAG 2844 TTC 2898 CTC 	GCA CAA CCA	TGT	TTC 2853 GAG 2907 GCA 	CAG TGG GCC	AAG	TCT 2862 TGA 2916 CAT 2970
TTG	ACC AGT GTG	TGA 2817 TGG 2871 CAA 	TTC GTA TTT	CTT TTA CTA TGT	CTG 2826 TTA 2880 TAC 2934 GAC	TCC AAT CTG TTG	TGA TCT GCT	ACA 2835 GGC 2889 CAT 2943 AGC	CAT CAT AAA TAT	AGC TAC ACC	CAG 2844 TTC 2898 CTC 2952 TTA	GCA CAA CCA CCA CAC	TGT TGT	TTC 2853 GAG 2907 GCA 2961 GTA	CAG TGG GCC AAT	AAG TTT	TCT 2862 TGA 2916 CAT 2970 CAG
TTG	ACC AGT GTG GAC	TGA 2817 TGG 2871 CAA 2925 ATT	TTC GTA TTT AAA	CTT TTA CTA TGT	CTG 2826 TTA 2880 TAC 2934 GAC	AAT CTG TTG	TGA TCT GCT	ACA 2835 GGC 2889 CAT 2943 AGC	CAT CAT AAA TAT	AGC TAC ACC	CAG 2844 TTC 2898 CTC 2952 TTA	GCA CAA CCA CAC	TGT TGT AGA	TTC 2853 GAG 2907 GCA 2961 GTA	CAG TGG GCC AAT	AAG TTT CAC	TCT 2862 TGA 2916 CAT 2970 CAG
TTG CAT GTT	ACC AGT GTG GAC	TGA 2817 TGG 2871 CAA 2925 ATT	TTC GTA TTT AAA	CTT TTA CTA TGT	CTG 2826 TTA 2880 TAC 2934 GAC 	AAT CTG TTG	TGA TCT GCT GGA	ACA 2835 GGC 2889 CAT 2943 AGC 	CAT CAT AAA TAT	AGC TAC ACC	CAG 2844 TTC 2898 CTC 2952 TTA 3006	GCA CAA CCA CAC	TGT TGT	TTC 2853 GAG 2907 GCA 2961 GTA 3015	CAG TGG GCC AAT	AAG TTT CAC	TCT 2862 TGA 2916 CAT 2970 CAG 3024
TTG CAT GTT	ACC AGT GTG GAC	TGA 2817 TGG 2871 CAA 2925 ATT 2979 GGA	TTC GTA TTT AAA	CTT TTA CTA TGT CTG	CTG 2826 TTA 2880 TAC 2934 GAC 2988 AAA	AAT CTG TTG	TGA TCT GCT GGA CTG	ACA 2835 GGC 2889 CAT 2943 AGC 2997	CAT CAT AAA TAT AGA	AGC TAC ACC GTG GCG	CAG 2844 TTC 2898 CTC 2952 TTA 3006 AAA	GCA CAA CCA CAC CAC CAC	TGT TGT AGA	TTC 2853 GAG 2907 GCA 2961 GTA 3015 TCA	CAG TGG GCC AAT TTT	AAG TTT CAC	TCT 2862 TGA 2916 CAT 2970 CAG 3024
TTG CAT GTT	ACC AGT GTG GAC	TGA 2817 TGG 2871 CAA 2925 ATT 2979 GGA	TTC GTA TTT AAA TTT TTT	CTT TTA CTA TGT CTG	CTG 2826 TTA 2880 TAC 2934 GAC 2988 AAA	AAT CTG TTG AAA	TGA TCT GCT GGA CTG	ACA 2835 GGC 2889 CAT 2943 AGC 2997 TGC	CAT CAT AAA TAT AGA	AGC ACC GTG	CAG 2844 TTC 2898 CTC 2952 TTA 3006 AAA	GCA CAA CCA CAC CAC CAC	TGT TGT AGA CTG	TTC 2853 GAG 2907 GCA 2961 GTA 3015 TCA	CAG TGG GCC AAT TTT	AAG TTT CAC	TCT 2862 TGA 2916 CAT 2970 CAG 3024
TTG CAT GTT AAG	ACC AGT GTG GAC	TGA 2817 TGG 2871 CAA 2925 ATT 2979 GGA 3033	TTC GTA TTT AAA TTT TTT	CTT CTA CTA CTG	CTG 2826 TTA 2880 TAC 2934 GAC 2988 AAA 3042	TCC AAT CTG TTG AAA	TGA TCT GCT GGA CTG	ACA 2835 GGC 2889 CAT 2943 AGC 2997 TGC 	CAT CAT AAA TAT AGA	AGC ACC GTG	CAG 2844 TTC 2898 CTC 2952 TTA 3006 AAA	GCA CAA CCA CAC CAC CT	TGT TGT AGA CTG	TTC 2853 GAG 2907 GCA 2961 GTA 3015 TCA	CAG TGG GCC AAT TTT	AAG TTT CAC	TCT 2862 TGA 2916 CAT 2970 CAG 3024 ACT 3078
TTG CAT GTT AAG	ACC AGT GTG GAC CCT	TGA 2817 TGG 2871 CAA 2925 ATT 2979 GGA 3033	TTC GTA TTT AAA TTT TTT	CTT CTA TGT CTG	CTG 2826 TTA 2880 TAC 2934 GAC 2988 AAA 3042	TCC AAT CTG TTG AAA	TGA TCT GCT GGA CTG	ACA 2835 GGC 2889 CAT 2943 AGC 2997 TGC 	CAT CAT AAA TAT AGA	AGC ACC GTG	CAG 2844 TTC 2898 CTC 2952 TTA 3006 AAA	GCA CAA CCA CAC CAC CT	TGT TGT AGA CTG	TTC 2853 GAG 2907 GCA 2961 GTA 3015 TCA	CAG TGG GCC AAT TTT	AAG TTT CAC	TCT 2862 TGA 2916 CAT 2970 CAG 3024 ACT 3078
TTG CAT GTT AAG	ACC AGT GTG GAC CCT ACT	TGA 2817 TGG 2871 CAA 2925 ATT 2979 GGA 3033	TTC GTA TTT AAA TTT	CTT TTA CTA TGT	2826 TTA 2880 TAC 2934 GAC 2988 AAA 3042 ACG	TCC AAT CTG TTG AAA	TGA TCT GCT GGA CTG CAG	ACA 2835 GGC 2889 CAT 2943 AGC 2997 TGC 3051	CAT CAT AAA TAT AGA GAT	AGC TAC ACC GTG GTG	CAG 2844 TTC 2898 CTC 2952 TTA 3006 AAA 3060 TGA	GCA CAA CCA CAC CAC AAA	TGT TGT AGA CTG	TTC 2853 GAG 2907 GCA 2961 GTA 3015 TCA 3069 AAG	CAG TGG GCC AAT TTT TAC	AAG TTT CAC	TCT 2862 TGA 2916 CAT 2970 CAG 3024 ACT 3078
TTG CAT GTT AAG	ACC AGT GTG GAC CCT ACT	TGA 2817 TGG 2871 CAA 2925 ATT 2979 GGA 3033 TGT	TTC GTA TTT AAA TTT ATT	CTT TTA CTA TGT TGT	2826 TTA 2880 TAC 2934 GAC 2988 AAA 3042 ACG	TCC AAT CTG TTG AAA AGG	TGA TCT GCT GGA CTG CAG	ACA 2835 GGC 2889 CAT 2943 AGC 2997 TGC 3051 TTG 3105	CAT AAA TAT AGA GAT	AGC TAC ACC GTG GTG AAG	CAG 2844 TTC 2898 CTC 2952 TTA 3006 AAA 3114	CAA CCA CAC CAC AAA	TGT TGT AGA CTG	TTC 2853 GAG 2907 GCA 2961 GTA 3015 TCA 3069 AAG 3123	CAG TGG GCC AAT TTT TAC	AAG TTT CAC	TCT 2862 TGA 2916 CAT 2970 CAG 3024 ACT 3078 TGT 3132

AAA A 3'

Figure 3: Protein Sequence for 101P3A11.

MVDPNGNESSATYFILIGLPGLEEAQFWLAFPLCSLYLIAVLGNLTIIYIVRTEHSLHEPMYIFLCMLSGIDILI STSSMPKMLAIFWFNSTTIQFDACLLQIFAIHSLSGMESTVLLAMAFDRYVAICHPLRHATVLTLPRVTKIGV AAVVRGAALMAPLPVFIKQLPFCRSNILSHSYCLHQDVMKLACDDIRVNVVYGLIVIISAIGLDSLLISFSYL LILKTVLGLTREAQAKAFGTCVSHVCAVFIFYVPFIGLSMVHRFSKRRDSPLPVILANIYLLVPPVLNPIVYG VKTKEIRQRILRLFHVATHASEP

Figure 4

Alignment of 101P3A11 (Sbjct) with mouse olfactory receptor S25 (Query)

- Query: 34 GNYTVVTEFILLGLTDDITVSVILFVMFLIVYSVTLMGNLNIIVLIRTSPQLHTPMYLFL 93
 GN + T FIL+GL L +Y + ++GNL II ++RT LH PMY+FL
- Sbjct: 6 GNESSATYFILIGLPGLEEAQFWLAFPLCSLYLIAVLGNLTIIYIVRTEHSLHEPMYIFL 65
- Query: 94 SHLAFLDIGYSSSVTPIMLRGFLRKGTFIPVAGCVAQLCIVVAFGTSESFLLASMAYDRY 153
- L+ +DI S+S P ML F T I C+ Q+ + + ES +L +MA+DRY Sbjct: 66 CMLSGIDILISTSSMPKMLAIFWFNSTTIQFDACLLQIFAIHSLSGMESTVLLAMAFDRY 125
- Query: 154 VAICSPLLYSTQMSSTVCILLVGTSYLGGWVNAWIFTGCSLNLSFCGPNKINHFFCDYSP 213
- Sbjct: 126 VAICHPLRHATVLTLPRVTKIGVAAVVRGAALMAPLPVFIKQLPFCRSNILSHSYCLHQD 185
- Query: 214 LLKLSCSHDFSFEVIPAISSGSIIVVTVFIIALSYVYILVSILKMRSTEGRQKAFSTCTS 273
- '++KL+C V I S I + +I+ SY+ IL ++L + + E + KAF TC S Sbjct: 186 VMKLACDDIRVNVVYGLIVIISAIGLDSLLISFSYLLILKTVLGL-TREAQAKAFGTCVS 244
- Query: 274 HLTAVTLFFGTITFIYVMPQSSYSTDQNK----VVSVFYTVVIPMLNPLIYSFRNKEVKE 329
- H+ AV +F+ + FI + +S ++ +++ Y +V P+LNP++Y + KE+++
 Sbjct: 245 HVCAVFIFY--VPFIGLSMVHRFSKRRDSPLPVILANIYLLVPPVLNPIVYGVKTKEIRQ 302
- Query: 330 AMKKL 334
 - + +L
- Sbjct: 303 RILRL 307

Figure 5: 101P3A11 Hydrophilicity profile

(Hopp T.P., Woods K.R., 1981. Proc. Natl. Acad. Sci. U.S.A. 78:3824-3828)

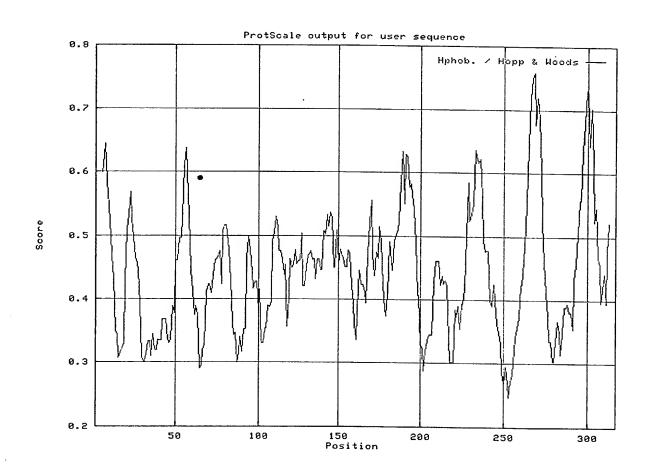


Figure 6: 101P3A11 Hydropathicity Profile

(Kyte J., Doolittle R.F., 1982. J. Mol. Biol. 157:105-132)

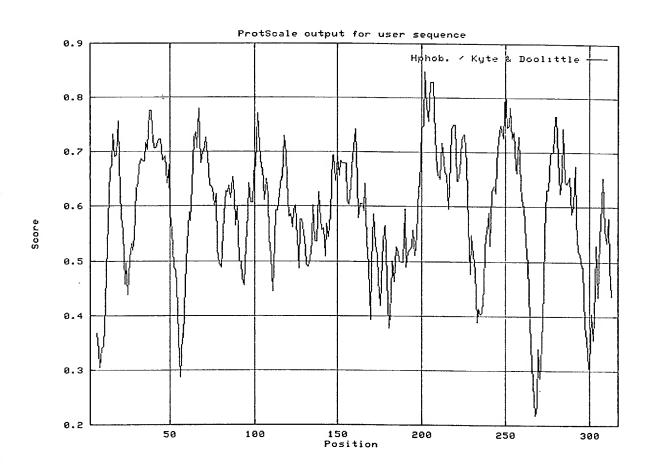


Figure 7: 101P3A11 % Accessible Residues Profile (Janin J., 1979. Nature 277:491-492)

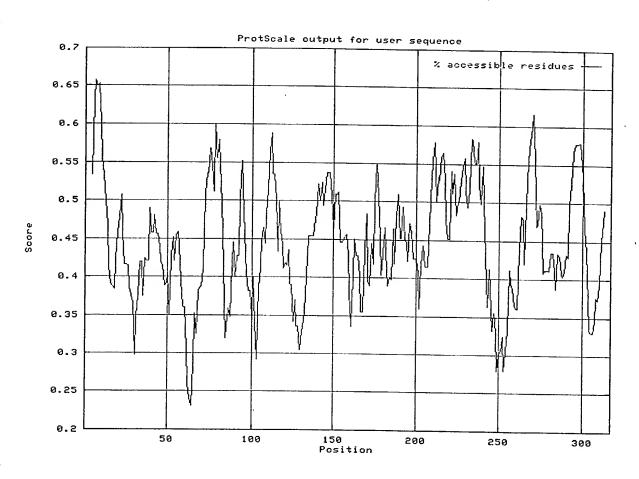
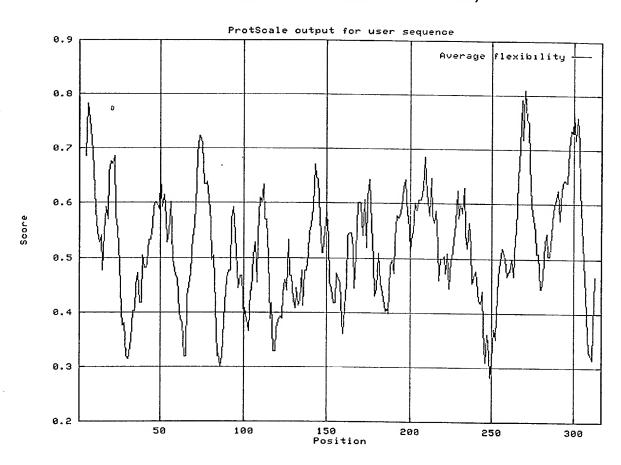
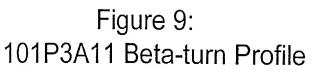


Figure 8: 101P3A11 Average Flexibility Profile

(Bhaskaran R., Ponnuswamy P.K., 1988. Int. J. Pept. Protein Res. 32:242-255)





(Deleage, G., Roux B. 1987. Protein Engineering 1:289-294)

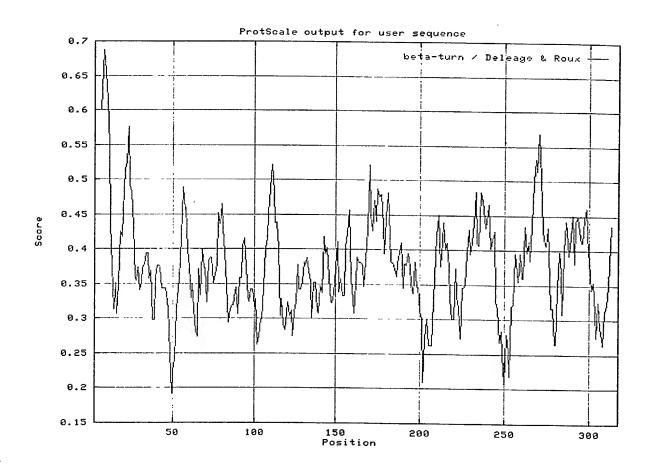
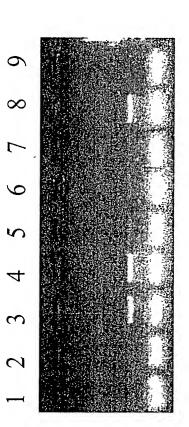


Figure 10A. Expression of 101P3A11 by RT-PCR



- VP1 (Kidney, Lung, Liver)
- · VP2 (Pancreas, Colon, Stomach)
- Prostate xenograft Pool
 - Prostate Cancer Pool
 - Kidney Cancer Pool
- Colon Cancer Pool
- Breast Cancer Pool
- Metastasis Pool
- H20

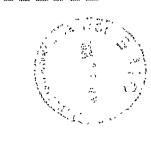


Figure 10B

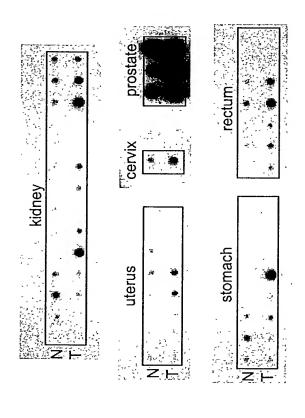
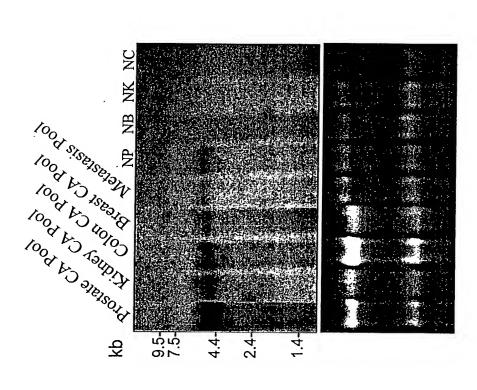


Figure 11. Expression of 101P3A11 in Human Patient Cancer Specimens



10μg total RNA/per lane from a pool of 3 tumors as follows:

Prostate Cancer Pool = gleason 6, 8, 9
Kidney Cancer Pool = grade 2, 2, 3
Colon Cancer Pool = stage II, III, IV
Breast Cancer Pool = grade 1, 2, 3
Metastasis Pool = colon to lung, colon to
liver, ovary to fall. tube

NP = Normal Prostate NB = Normal Bladder NK = Normal Kidney NC = Normal Colon



Figure 12A

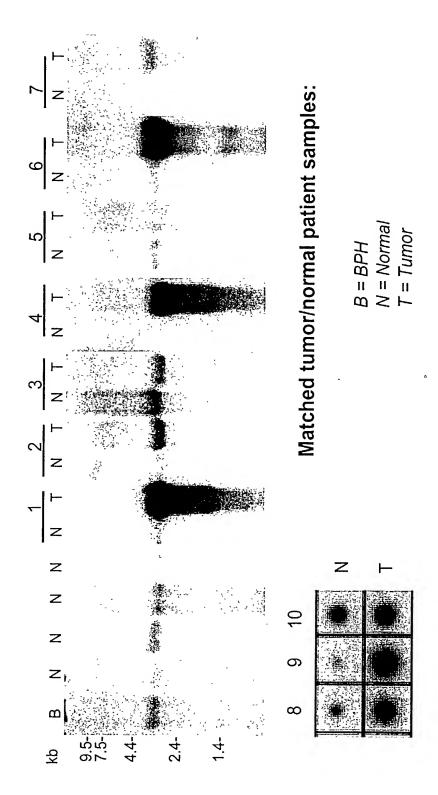


Figure 12B and 12C



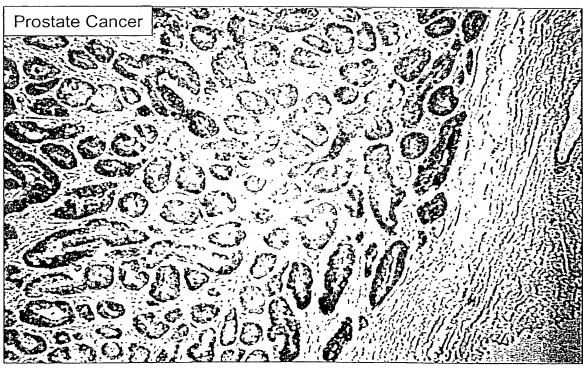
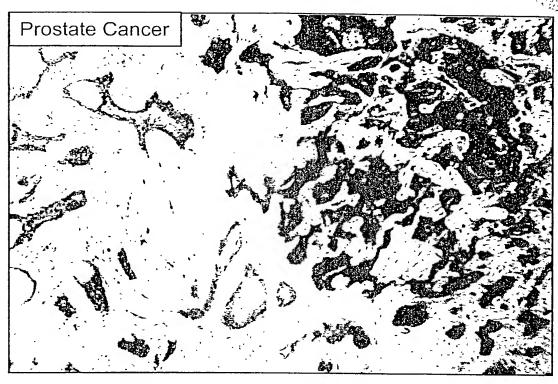


Figure 12D and 12E



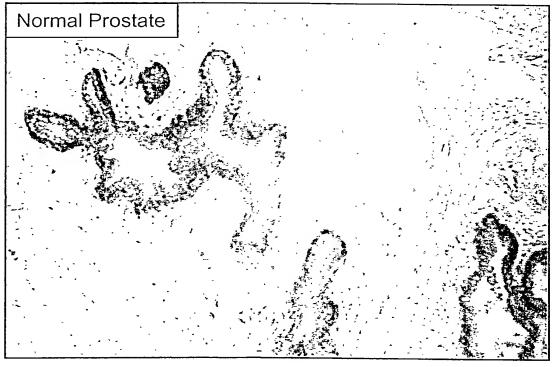
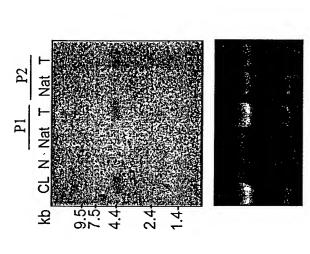
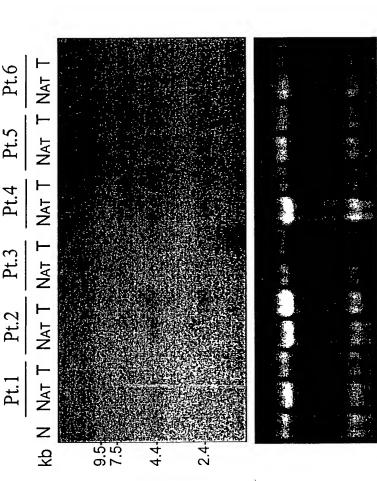


Figure 13. Expression of 101P3A11 in Colon Cancer Patient Specimens



P1, Stage I P2, Stage IV CL = Colon cancer cell line T84 N = Normal colon Nat = Normal Adjacent Tissue T = Tumor

Figure 14. Expression of 101P3A11 in Kidney Cancer Patient Specimens



Pt.1, Papillary carcinoma, stage l Pt.2, Invasive papillary carcinoma Pt.3, Clear cell type grade 1/3, focally 2/3 Pt.4, Clear cell type, stage III Pt.5, Clear cell type, stage III Pt.6, Clear cell type, stage III

N = Normal kidney Nat = Normal adjacent tumor T = Tumor

Figure 15A-15C. Androgen Regulation of 101P3A11 in Tissue Culture Cells

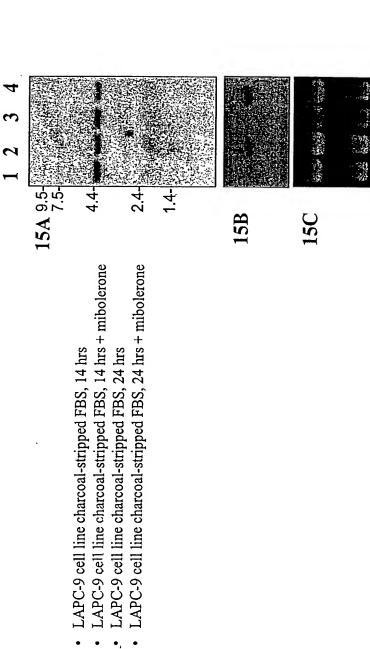


Figure 16. Androgen Regulation of 101P3A11 In Vivo

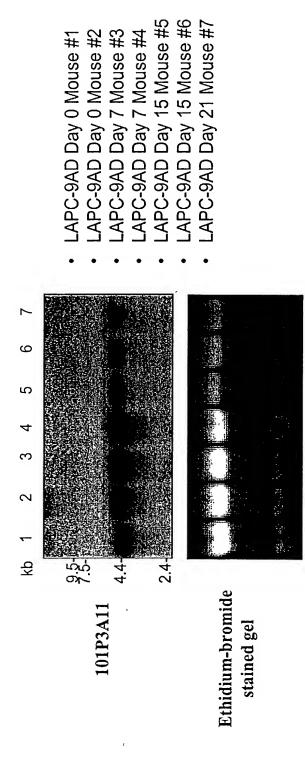


Figure 17. Expression and Detection of 101P3A11(159-202)psecke Fusion Protein

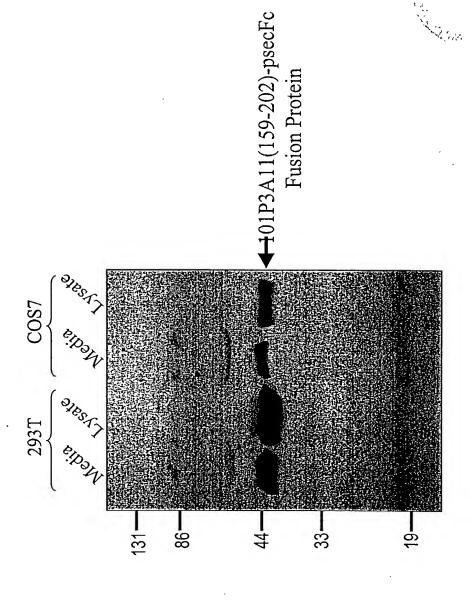
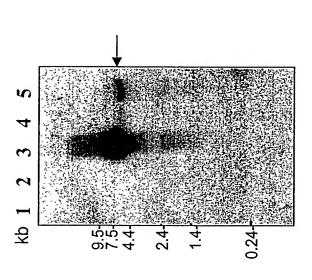


Figure 18. Expression of 101P3A11 in 300.19 Cells



300.19 300.19/neo-pSRα 300.19/101P3A11-pSRα LAPC-4AD LAPC-9AD

Figure 19A. Secondary structure prediction of 101P3A11

	10	20	30	40	50	09	70
	_			_	_		
MVDPNG	MVDPNGNESSATYFILIGLPGLEEAQFWLAFPLCSLYLIAVLGNLTIIYIVRTEHSLHEPMYIFLCMLSG	LPGLEEAQFW	ILAFPLCSLY I	LIAVLGNLTI	YIVRTEHSLE	HEPMYIFLCMI	SG
ממטמטט	ссссссссеееееессссириррантирный в присседееееееееееееееееееееееееееееееееее	ւշշերհիհիհի	հերուհերերի	лһһһссссее	eeeeccccc	Վ ԱԿԱԿԱԿԱՐ	ပ္မ
IDILIS'	IDILISTSSMPKMLAIFWFNSTTIQFDACLLQIFAIHSLSGMESTVLLAMAFDRYVAICHPLRHATVLTL	FNSTTIQFDA	CLLQIFAIH	SLSGMESTVLI	AMAFDRYVAI	ICHPLRHATVI	T
ceeeee	сееееесссирурныеееесссссеенный праводетсе прининный прининий принин	ccccceehhh	րերերերեր	зссссрьрь	นหนนสสสส	nhacaaaeee	S S
PRVTKI	PRVTKIGVAAVVRGAALMAPLPVFIKQLPFCRSNILSHSYCLHQDVMKLACDDIRVNVYGLIVIISAIG	IAPLPVFIKQL	PFCRSNILS	HSYCLHQDVMK	CLACDDIRVNV	WYGLIVIISA	DIG
ccchee	сссћеенћићићићићиссснићиессссссссићисссићинћићићићи веееееееееее	ccchhhhecc	ccccccphc	շշհհհհհհհհհ	ірьтррсеее	seeeeeeee	hc
LDSLLI	LDSLLISFSYLLILKTVLGLTREAQAKAFGTCVSHVCAVFIFYVPFIGLSMVHRFSKRRDSPLPVILANI	GLTREAQAKA	FGTCVSHVC?	AVFIFYVPFIG	LSMVHRFSKF	REDSPLPVIL	IN
יייעעעעע	иньининининининининининининисссееееееееее	น ีนกับทับทับ	cccceeeeee	seeeeehcha	փերհերեց	засасареее	eh
YLLVPP'	YLLVPPVLNPIVYGVKTKEIRQRILRLFHVATHASEP	EIRQRILRLF	HVATHASEP				

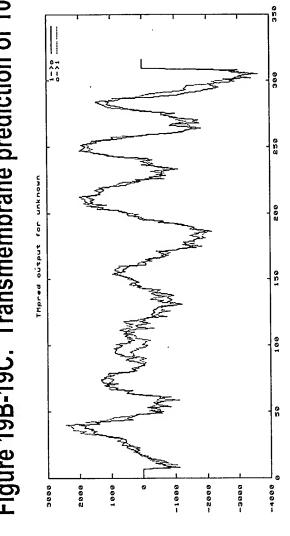
c: random coil (30.60%)

иррссссссреессринирнирные

e: extended strand (21.45%) h: alpha helix (47.95%)

Figure 19B-19C. Transmembrane prediction of 101P3A11

19B



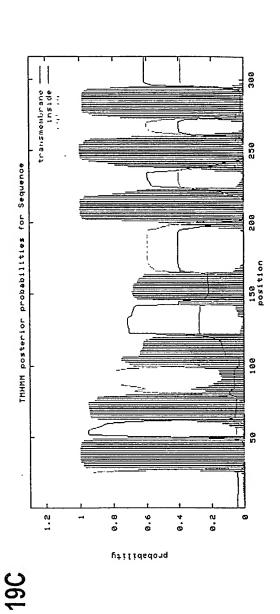


Figure 20. Expression of 101P3A11 in NIH-3T3 Tumors

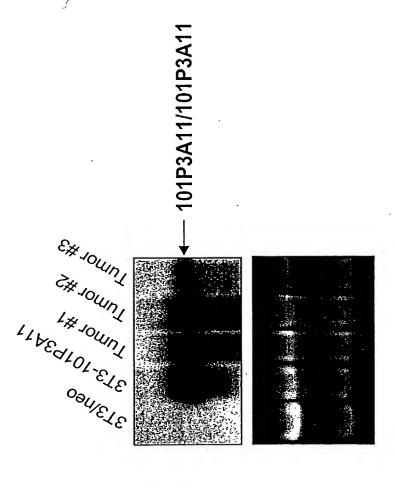
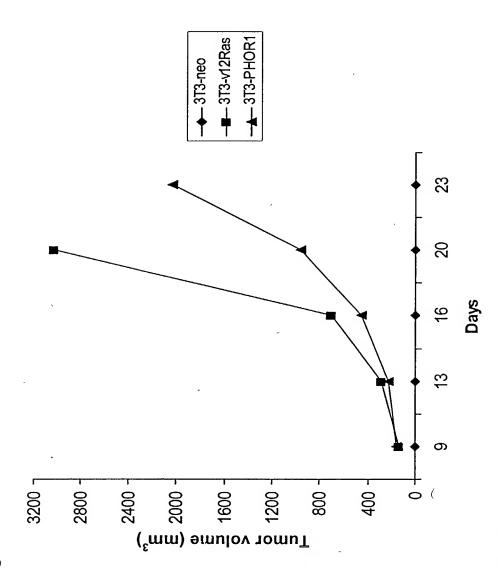
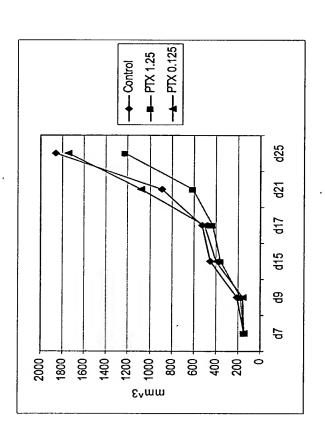


Figure 21: 101P3A11 Induces Tumor Formation of 3T3 Cells



•Injection of 106 3T3-neo, 3T3-Ras or 3T3-101P3A11 cells subcutaneously into SCID mice revealed that $6/\tilde{\phi}_{-}$ 3T3-Ras-injected mice formed tumors, 6/6 3T3-101P3A11- injected mice formed tumors, and 0/6 3T3neo-injected mice formed tumors.

Figure 22: PTX Reduces the in vivo Growth of 3T3-101P3A11 Tumors



•Pertussis toxin inhibits the sub-cutaneous growth of 3T3-101P3A11 tumors in SCID mice.

•The inhibitory activity of pertussis toxin occurs in a dose dependent manner.

Figure 23: Alignment of 101P3A11-PHOR-1 with the rat GPCR RA1C (gi|3420759).

Identities = 179/299 (59%), Positives = 231/299 (76%), Gaps = 1/299 (0%)

- PHOR: 14 FILIGLPGLEEAQFWLAFPLCSLYLIAVLGNLTIIYIVRTEHSLHEPMYIFLCMLSGIDI 73 F+LIG+PGLEEA FW FPL S+Y +A+ GN +++IVRTE SLH PMY+FLCML+ ID+
- RA1C: 11 FMLIGIPGLEEAHFWFGFPLLSMYAVALFGNCIVVFIVRTERSLHAPMYLFLCMLAAIDL 70
- PHOR: 74 LISTSSMPKMLAIFWFNSTTIQFDACLLQIFAIHSLSGMESTVLLAMAFDRYVÄICHPLR 133 +STS+MPK+LA+FWF+S I FDACL Q+F IH+LS +EST+LLAMAFDRYVAICHPLR
- RAIC: 71 ALSTSTMPKILALFWFDSREITFDACLAOMFFIHALSAIESTILLAMAFDRYVAICHPLR 130
- PHOR: 134 HATVLTLPRVTKIGVAAVVRGAALMAPLPVFIKQLPFCRSNILSHSYCLHQDVMKLACDD 193
 HA VL +IG+ A+VRG+ PLP+ IK+L FC SN+LSHSYC+HQDVMKLA D
- RAIC: 131 HAAVLNNTVTVQIGMVALVRGSLFFFPLPLLIKRLAFCHSNVLSHSYCVHQDVMKLAYTD 190
- PHOR: 194 IRVNVVYGLIVIISAIGLDSLLISFSYLLILKTVLGL-TREAQAKAFGTCVSHVCAVFIF 252

 NVVYGL I+ +G+D + IS SY LI++ VL L ++ +AKAFGTCVSH+ V F
- RAIC: 191 TLPNVVYGLTAILLVMGVDVMFISLSYFLIIRAVLQLPSKSERAKAFGTCVSHIGVVLAF 250
- ${\tt PHOR:~253~YVPFIGLSMVHRFSKRRDSPLPVILANIYLLVPPVLNPIVYGVKTKEIRQRILRLFHVA~311}$
- YVP IGLS+VHRF D + V++ ++YLL+PPV+NPI+YG KTK+IR R+L +F ++ RA1C: 251 YVPLIGLSVVHRFGNSLDPIVHVLMGDVYLLLPPVINPIIYGAKTKQIRTRVLAMFKIS 309

Figure 24: Alignment of 101P3All-PHOR-1 with the human prostate specific GPCR. (gi | 13540539)

Identities = 179/299 (59%), Positives = 233/299 (77%), Gaps = 1/299 (0%)

- PHOR: 14 FILIGLPGLEEAQFWLAFPLCSLYLIAVLGNLTIIYIVRTEHSLHEPMYIFLCMLSGIDI 73 F+LIG+PGLE+A FW+ FPL S+Y++A+ GN +++IVRTE SLH PMY+FLCML+ ID+
- GPCR: 11 FVLIGIPGLEKAHFWVGFPLLSMYVVAMFGNCIVVFIVRTERSLHAPMYLFLCMLAAIDL 70
- PHOR: 74 LISTSSMPKMLAIFWFNSTTIQFDACLLQIFAIHSLSGMESTVLLAMAFDRYVAICHPLR 133 +STS+MPK+LA+FWF+S I F+ACL Q+F IH+LS +EST+LLAMAFDRYVAICHPLR
- GPCR: 71 ALSTSTMPKILALFWFDSREISFEACLTQMFFIHALSAIESTILLAMAFDRYVAICHPLR 130
- PHOR: 134 HATVLTLPRVTKIGVAAVVRGAALMAPLPVFIKQLPFCRSNILSHSYCLHQDVMKLACDD 193
 HA VL +IG+ AVVRG+ PLP+ IK+L FC SN+LSHSYC+HODVMKLA D
- HA VL +IG+ AVVRG+ PLP+ IK+L FC SN+LSHSYC+HQDVMKLA D GPCR: 131 HAAVLNNTVTAQIGIVAVVRGSLFFFPLPLLIKRLAFCHSNVLSHSYCVHQDVMKLAYAD 190
- PHOR: 194 IRVNVVYGLIVIISAIGLDSLLISFSYLLILKTVLGL-TREAQAKAFGTCVSHVCAVFIF 252
- NVVYGL I+ +G+D + IS SY LI++TVL L ++ +AKAFGTCVSH+ V F GPCR: 191 TLPNVVYGLTAILLVMGVDVMFISLSYFLIIRTVLQLPSKSERAKAFGTCVSHIGVVLAF 250
- YVP IGLS+VHRF + V++ +IYLL+PPV+NPI+YG KTK+IR R+L +F ++
 GPCR: 251 YVPLIGLSVVHRFGNSLHPIVRVVMGDIYLLLPPVINPIIYGAKTKQIRTRVLAMFKIS 309

llegies deres

Figure 25: Alignment with human olfactory receptor 5II12 (gi|14423836)

Identities = 163/304 (53%), Positives = 214/304 (69%), Gaps = 1/304 (0%)

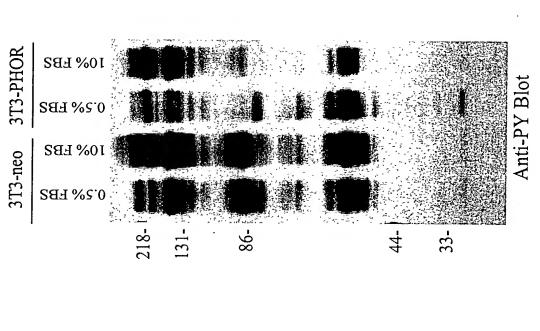
- PHOR: 7 NESSATYFILIGLPGLEEAQFWLAFPLCSLYLIAVLGNLTIIYIVRTEHSLHEPMYIFLC 66 N + +F+L G+PGLE + WL+ PLC +Y +A+ GN I+ VR E SLHEPMY FL
- HOR5: 5 NVTHPAFFLLTGIPGLESSHSWLSGPLCVMYAVALGGNTVILQAVRVEPSLHEPMYYFLS 64
- PHOR: 67 MLSGIDILISTSSMPKMLAIFWFNSTTIQFDACLLQIFAIHSLSGMESTVLLAMAFDRYV 126 MLS D+ IS +++P +L F N+ I FDACL+Q+F IH S MES +LLAM+FDRYV
- HOR5: 65 MLSFSDVAISMATLPTVLRTFCLNARNITFDACLIQMFLIHFFSMMESGILLAMSFDRYV 124
- PHOR: 127 AICHPLRHATVLTLPRVTKIGVAAVVRGAALMAPLPVFIKQLPFCRSNILSHSYCLHQDV 186 AIC PLR+ATVLT + +G+ A R + PLP IK+LP CRSN+LSHSYCLH D+
- HOR5: 125 AICDPLRYATVLTTEVIAAMGLGAAARSFITLFPLPFLIKRLPICRSNVLSHSYCLHPDM 184
- PHOR: 187 MKLACDDIRVNVVYGLIVIISAIGLDSLLISFSYLLILKTVLGL-TREAQAKAFGTCVSH 245
- M+LAC DI +N +YGL V++S G+D I SY+LIL++V+ +RE + KA TCVSH HOR5: 185 MRLACADISINSIYGLFVLVSTFGMDLFFIFLSYVLILRSVMATASREERLKALNTCVSH 244
- PHOR: 246 VCAVFIFYVPFIGLSMVHRFSKRRDSPLPVILANIYLLVPPVLNPIVYGVKTKEIRQRIL 305
- + AV FYVP IG+S VHRF K + V+++N+YL VPPVLNP++Y KTKEIR+ I HOR5: 245 ILAVLAFYVPMIGVSTVHRFGKHVPCYIHVLMSNVYLFVPPVLNPLIYSAKTKEIRRAIF 304

PHOR: 306 RLFH 309

R+FH

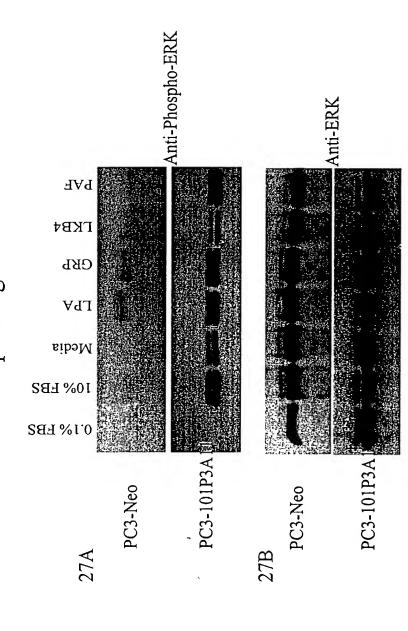
HOR5: 305 RMFH 308

Figure 26: 101P3A11 Modulated Tyrosine Phosphorylation in NIH-3T3 Cells



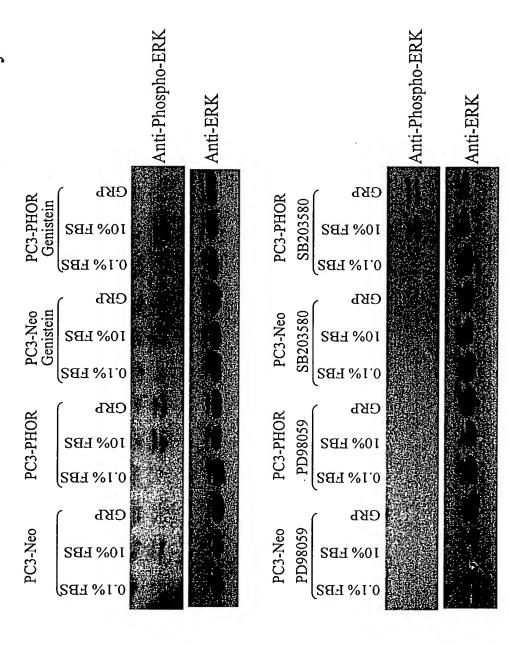
•101P3A11 mediated the de-phosphorylation of proteins at 200, 120-140, 85-90 and 55 kDá •101P3A11 induced the phsophorylation of proteins at 80 and 29 kDa in NIH-3T3 cells.

Figures 27A-27B: ERK Phosphorylation by PCR Ligands in 101P3A11 **Expressing Cells**



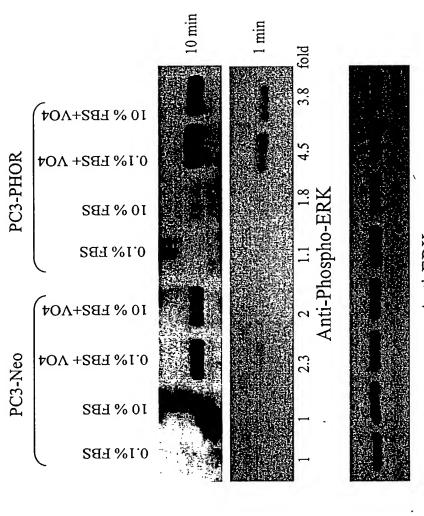
•FBS, lipophosphatidic acid, gastrin releasing peptide, leukotriene and platelet activating factor induced the phosphorylation of ERK in 101P3A11 expressing cells.

Figure 28: Inhibition of 101P3A11-Mediated ERK Activation by PD98059



•ERK phosphorylation was inhibited by a MEK specific(PD98059) but not a p38 specific (SB203580) inhibitor in PC3-101P3A11 cells.

Figure 29: Enhanced ERK Phosphorylation in Sodium Orthovanadate Treated PC3-101P3A11 Cells



Anti-ERK

•Sodium orthovanadate induced increased ERK phosphorylation in PC3-101P3A11 cells relative to PC3-neo cells.

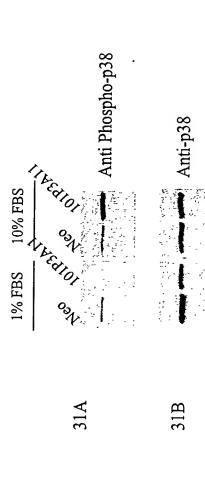
Figure 30: Inhibition of 101P3A11-Mediated ERK Phosphorylation by AG1517

			Anti-Phospho-ERK	Anti-ERK
	~	ECŁ		
	PC3-PHOR	СВР	智慧	
	PC3-1	10% FBS		
AG1517		0.1% FBS		
AG		EGŁ	- 4	
:	PC3-neo	СВР		
	PC3	10% FBS		
		0.1% FBS		
	R	EGŁ	n	
	PC3-PHOR	СВР .		
	PC3	10% FBS		
		0.1% FBS		
	C	EGŁ	11	
	PC3-neo	СКР	•	
	PC	10% FBS		
		0.1% FBS		

•The EGFR inhibitor, AG1517, inhibits EGF-mediated ERK phosphorylation in control and 101P3A11 expressing PC3 cells.

•AG1517 partially inhibits 101P3A11 mediated ERK phosphorylation in PC3

Figure 31A-31B: Activation of p38 in PC3-101P3A11 Cells



•Expression of 101P3A11 mediates p38 phosphorylation in cells treated with 10% FBS.

Figure 32: 101P3A11 Induced Accumulation of cAMP in PC3 Cells

	Fol	Fold change in [cAMP]	AMP]
		PC3-Neo	PC3-PHOR
0.1%FBS -PTX	-YTX	_	4.302
	+PTX	1.403	2.577
10%FBS	-PTX	2.738	6.978
	+PTX	2.163	2.752

Fold Change in cAMP accumulation was calculated relative to PC3-neo cells grown in 0.1%FBS

•Expression of 101P3A11 increased the accumulation of cAMP in cells treated with 0.1% and 10% FBS.

•FBS-induced cAMP accumulation in 101P3A11 cells was inhibited by pertussis toxin.

Figure 33: Pertussis Toxin Inhibits 101P3A11 Mediated ERK Phosphorylation

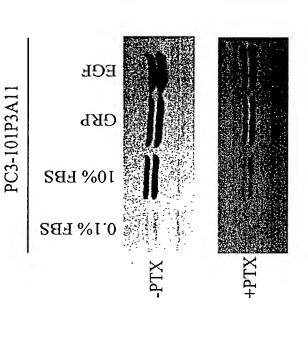
PC3-neo PC3-101P3A11

10% EBS		
0.1% FBS		
10% FBS		
0.1% FBS		
	-PTX	+PTX

Anti-Phospho-ERK

•Pertussis toxin inhibited FBS- mediated ERK phosphorylation in 101P3A11 expressing cells.

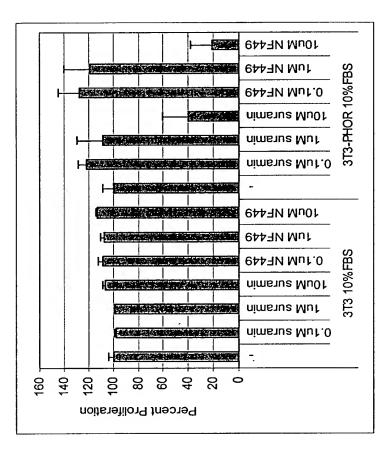
Figure 34: Pertussis Toxin Inhibited ERK Phosphorylation in PC3-101P3A11 Cells



Anti-Phospho-ERK

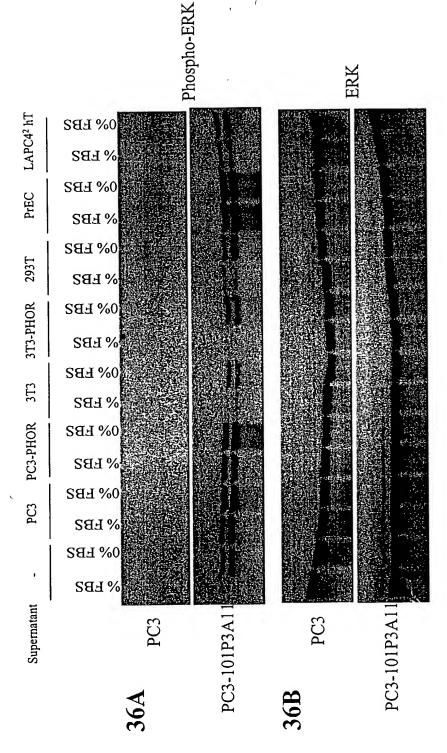
- •Pertussis toxin inhibited FBS- mediated ERK phosphorylation in 101P3A11 expressing
- •The inhibitory activity of pertussis toxin on ERK phosphorylation was more dramatic in FBS-treated than EGF or GRP-treated PC3-101P3A11 cells.

Figure 35: Inhibition of 101P3A11 Mediated Signaling by Suranim



- protein inhibitors suranim and NF449. Proliferation was analyzed by Alamar blue after 72 •Control NIH 3T3 and 3T3-101P3A11 cells were grown in the presence of absence of G hours.
- Suranim and NF449 inhibited the proliferation of 101P3A11 expressing but not control

Figures 36A-36B: 101P3A11 Mediated ERK Phosphorylation By Conditioned Media

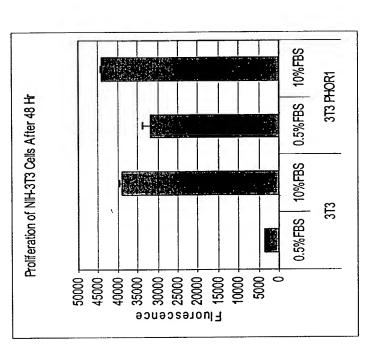


•Supernatants from PC3, PC3-101P3A11, PrEC and LAPC42 cells induce ERK phosphorylation in PC3 101P3A11 but not PC3 cells.

•Supernantants from 3T3 and 293T cells had little specific effect on ERK phosphorylation.

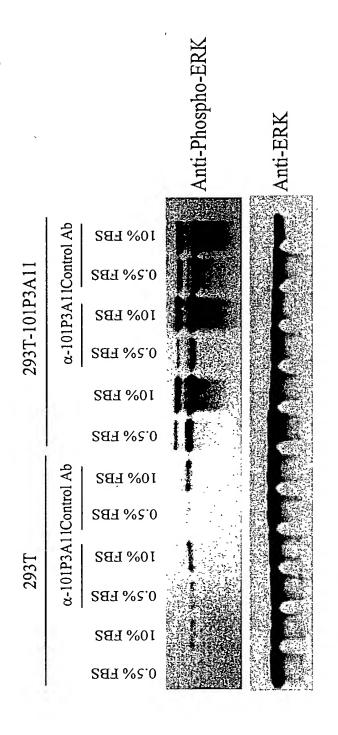


Figure 37: 101P3A11 Enhances The Proliferation of 3T3 Cells



•Control NIH 3T3 and 3T3-101P3A11 cells were grown in the presence of absence 0.5 or 10% FBS. Proliferation was analyzed by Alamar blue after 48 hours. •Expression of 101P3A11 induced a 6 fold increase in the proliferation of 3T3 cells grown in 0.5% FBS.

Figure 38: Inhibition of 101P3A11 Mediated ERK Phosphorylation by 101P3A11 Specific Antibodies

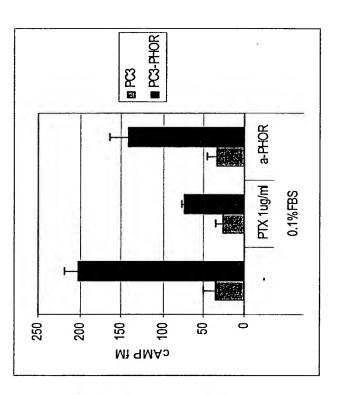


• Expression of 101P3A11 induced ERK phosphorylation in 293T cells.

Anti-101P3A11 pAb inhibited ERK Phosphorylation in 293T-101P3A11 cells.

Figure 39: Anti-101P3A11 Ab Mediated cAMP Accumulation in PC3-101P3A11 Cells

	Fold Increase in cAMP	in cAMP
Treatment	PC3	PC3-PHOR
0.1% FBS	1+ 0.42	5.73 ± 0.47
PTX 1ug/ml	0.74 ± 0.28	2.12 ± 0.09
anti-PHOR	0.97 ± 0.35	4.01 ± 0.64

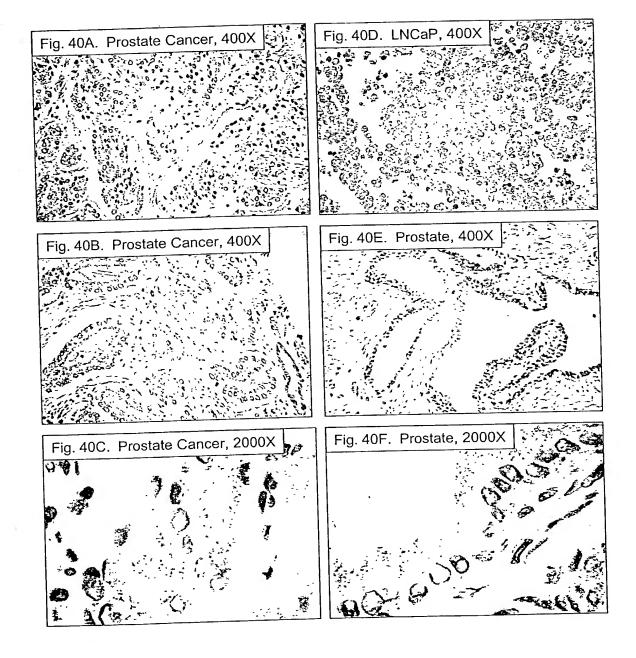


•Control PC3 cells and cells expressing 101P3A11 were treated with anti-101P3A11 pAb for 2 min and evaluated for intracellular cAMP content.

•The assay was performed in duplicate.







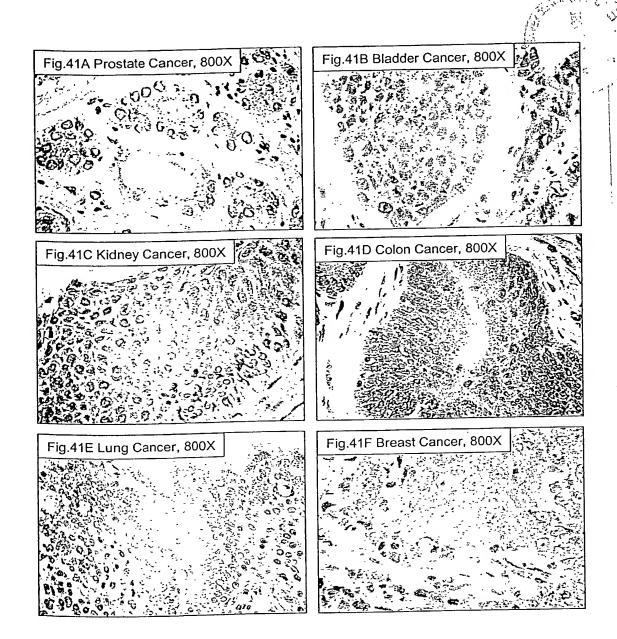


Figure 42

